

**SAFETY DATA SHEET**

Revision Date: 06/29/2022

Print Date: 10/22/2022

SDS Number: 000000307082

Version: 1.2

EUXYL K 510 preservative
™ Trademark, Ashland or its subsidiaries, registered
in various countries
967339

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**Product identifier**

Trade name : EUXYL K 510
preservative
™ Trademark, Ashland or its subsidiaries, registered in
various countries

Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Conservation agent (preservative) for cosmetics

Details of the supplier of the safety data sheet

Ashland
P.O. Box 2219
Columbus, OH 43216
United States of America (USA)
1-614-790-3333 (USA)

EHSProductSafety@ashland.com

Emergency telephone number

1-800-ASHLAND (1-800-274-5263)

Regulatory information

1-614-790-3333 (customer service)

Product Information

1-614-790-3333 (USA)

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

GHS label elements

Hazard pictograms :



Signal Word : Warning

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- Hazard Statements** : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
- Precautionary Statements** : If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
- Prevention:**
Avoid breathing mist or vapors.
Wash skin thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/ eye protection/ face protection.
- Response:**
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
- Disposal:**
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
DIMETHYLOL-5,5-DIMETHYLHYDANTOIN	6440-58-0	Acute Tox. 4; H302	>=20.00 - < 30.00
Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE MIXTURE WITH 2-METHYL-4-ISOTHIAZOLIN-3-ONE	55965-84-9	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314	>=0.10 - < 0.60



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Eye Dam. 1; H318

Skin Sens. 1A; H317

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Induce vomiting immediately and call a physician.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Gastrointestinal discomfort
Severe allergic skin reactions, bronchospasm and anaphylactic shock
Rash
tearing
Blurred vision
Irritation
Nausea



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Redness
Itching
Dermatitis
Local irritation
burning or stinging of the eye

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)

Specific extinguishing methods :

Standard procedure for chemical fires.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

SAFETY DATA SHEET

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Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE MIXTURE WITH 2-METHYL-4-ISOTHIAZOLIN-3-ONE	55965-84-9	TWA	0.76 mg/m ³	SUPLR EXP
		STEL	0.23 mg/m ³	SUPLR EXP
		TWA	1.5 mg/m ³	SUPLR EXP

SAFETY DATA SHEET

Revision Date: 06/29/2022

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		STEL	4.5 mg/m3	SUPLR EXP
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Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter within the capabilities of the respirator/filter combination.
Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator.

Hand protection

Material : butyl-rubber
Break through time : 480 min
Glove thickness : > 0.5 mm

Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
Eye wash bottle with pure water

Skin and body protection : Work uniform or laboratory coat.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Physical state : liquid

**SAFETY DATA SHEET**

Revision Date: 06/29/2022

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Colour : colourless, light blue

Odour : characteristic

Odour Threshold : not determined

pH : ca. 4 - 7 (20 °C)

Melting point/freezing point : ca.32 °F / 0 °C

Boiling point/boiling range : > 212 °F / > 100 °C

Flash point : > 100 °C
Method: ISO 2719

Evaporation rate : not determined

Flammability (solid, gas) :
not determined

Flammability (liquids) : not determined

Flammability (liquids) :
Upper explosion limit : Upper explosion limit
Not applicable

Lower explosion limit : Lower explosion limit
not determined

Vapour pressure : not determined

Relative vapour density : not determined

Relative density : 1.063 - 1.078 (20 °C)

Density : ca. 1.063 - 1.078 g/cm³ (20 °C)

Solubility(ies)
Water solubility : in all proportions (20 °C)

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : Not applicable

**SAFETY DATA SHEET**

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SDS Number: 000000307082

Version: 1.2

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Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : 11 mPa.s

Viscosity, kinematic : not determined

Flow time : < 15 s at 20 °C
Method: DIN 53211

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Surface tension : 54 mN/m

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : Protect from frost, heat and sunlight.

Incompatible materials : Oxidizing agents

Hazardous decomposition products
Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Eye contact
Skin contact
Ingestion

**SAFETY DATA SHEET**

Revision Date: 06/29/2022

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Acute toxicity

Not classified based on available information.

Components:

DIMETHYLOL-5,5-DIMETHYLHYDANTOIN:

Acute oral toxicity : LD50 (Rat): 1,572 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Assessment: No adverse effect has been observed in acute
dermal toxicity tests.

Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE MIXTURE WITH 2-METHYL-4-ISOTHIAZOLIN-3-ONE:

Acute oral toxicity : LD50 (Rat): 64 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.33 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): 87 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

DIMETHYLOL-5,5-DIMETHYLHYDANTOIN:

Species: Rabbit

Result: Slight, transient irritation

Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE MIXTURE WITH 2-METHYL-4-ISOTHIAZOLIN-3-ONE:

Species: Rabbit

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Remarks: May cause irreversible eye damage.

Components:

DIMETHYLOL-5,5-DIMETHYLHYDANTOIN:

**SAFETY DATA SHEET**

Revision Date: 06/29/2022

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SDS Number: 000000307082

Version: 1.2

EUXYL K 510 preservative
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Result: Slight, transient irritation

Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE MIXTURE WITH 2-METHYL-4-ISOTHIAZOLIN-3-ONE:

Species: Rabbit

Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:

DIMETHYLOL-5,5-DIMETHYLHYDANTOIN:

Assessment: Did not cause sensitisation on laboratory animals.

Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE MIXTURE WITH 2-METHYL-4-ISOTHIAZOLIN-3-ONE:

Result: The product is a skin sensitizer, sub-category 1A.

Germ cell mutagenicity

Not classified based on available information.

Components:

DIMETHYLOL-5,5-DIMETHYLHYDANTOIN:

Genotoxicity in vitro : Test Type: in vitro assay
Result: Positive results were obtained in some in vitro tests.

Genotoxicity in vivo : Test Type: chromosome aberration assay
Test species: Mouse
Cell type: Bone marrow
Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks: No data available

Carcinogenicity:

IARC

No component of this product present at levels greater than or

**SAFETY DATA SHEET**

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Version: 1.2

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967339

equal to 0.1% is identified as probable, possible or confirmed
human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or
equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or
equal to 0.1% is identified as a known or anticipated carcinogen
by NTP.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Ecotoxicology Assessment
Short-term (acute) aquatic
hazard

: Acute aquatic toxicity Category 1; Very toxic to aquatic life.

Long-term (chronic) aquatic
hazard

: Chronic aquatic toxicity Category 1; Very toxic to aquatic life
with long lasting effects.

Components:

DIMETHYLOL-5,5-DIMETHYLHYDANTOIN:

Toxicity to fish

: LC50 (Danio rerio (zebra fish)): > 82.3 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
Remarks: mortality

Toxicity to daphnia and other
aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 29.1 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202

Toxicity to algae

: ErC50 (Desmodesmus subspicatus (green algae)): ca. 11
mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 5.1 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test

SAFETY DATA SHEET

Revision Date: 06/29/2022

Print Date: 10/22/2022

SDS Number: 000000307082

Version: 1.2

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967339

Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): ca. 14 mg/l
Exposure time: 28 d
Test Type: flow-through test
Method: OECD Test Guideline 210
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 70.9 mg/l
Exposure time: 21 d
Test Type: flow-through test
Remarks: Information given is based on data obtained from similar substances.

Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE MIXTURE WITH 2-METHYL-4-ISOTHIAZOLIN-3-ONE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.19 mg/l
Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.28 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.16 mg/l
Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.027 mg/l
Exposure time: 72 h

M-Factor (Short-term (acute) aquatic hazard) : 100

M-Factor (Long-term (chronic) aquatic hazard) : 100

Toxicity to bacteria : EC50 (activated sludge): 4.5 mg/l
Test Type: Respiration inhibition

Persistence and degradability

Components:

DIMETHYLOL-5,5-DIMETHYLHYDANTOIN:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 95 %
Exposure time: 28 d
Method: OECD Test Guideline 301A

**SAFETY DATA SHEET**

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967339

Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE MIXTURE WITH 2-METHYL-4-ISOTHIAZOLIN-3-ONE:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 30 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

No data available

Bioaccumulative potential**Components:**

DIMETHYLOL-5,5-DIMETHYLHYDANTOIN:

Partition coefficient: n- : log Pow: Estimated -2.37
octanol/water

No data available

Mobility in soil**Components:**

No data available

Other adverse effects

No data available

Product:

Additional ecological : An environmental hazard cannot be excluded in the event of
information unprofessional handling or disposal., Toxic to aquatic life with
long lasting effects.

Components:**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

General advice : The product should not be allowed to enter drains, water
courses or the soil.
Do not contaminate ponds, waterways or ditches with
chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**International transport regulations
REGULATION**

**SAFETY DATA SHEET**

Revision Date: 06/29/2022

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ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

Not dangerous goods

MARINE
POLLUTANT:(
5-CHLORO-2-
METHYL-4-
ISOTHIAZOLI
N-3-ONE
MIXTURE
WITH 2-
METHYL-4-
ISOTHIAZOLI
N-3-ONE)

CFR_RAIL_C

Not dangerous goods

MARINE
POLLUTANT:(
5-CHLORO-2-
METHYL-4-
ISOTHIAZOLI
N-3-ONE
MIXTURE
WITH 2-
METHYL-4-
ISOTHIAZOLI
N-3-ONE)

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

MARINE
POLLUTANT:(
5-CHLORO-2-
METHYL-4-
ISOTHIAZOLI
N-3-ONE
MIXTURE
WITH 2-
METHYL-4-
ISOTHIAZOLI
N-3-ONE)

TDG_ROAD_C



SAFETY DATA SHEET

Revision Date: 06/29/2022

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SDS Number: 000000307082

Version: 1.2

EUXYL K 510 preservative
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 967339

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_INWT_C

Not dangerous goods

MARINE
 POLLUTANT:(
 5-CHLORO-2-
 METHYL-4-
 ISOTHIAZOLI
 N-3-ONE
 MIXTURE
 WITH 2-
 METHYL-4-
 ISOTHIAZOLI
 N-3-ONE)

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (5-CHLORO-2- METHYL-4-ISOTHIAZOLIN-3- ONE MIXTURE WITH 2- METHYL-4-ISOTHIAZOLIN-3- ONE)	9	III	MARINE POLLUTANT:(5-CHLORO-2- METHYL-4- ISOTHIAZOLI N-3-ONE MIXTURE WITH 2- METHYL-4- ISOTHIAZOLI N-3-ONE)
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	3082	Environmentally hazardous substance, liquid, n.o.s. (5- CHLORO-2-METHYL-4- ISOTHIAZOLIN-3-ONE MIXTURE WITH 2-METHYL-4- ISOTHIAZOLIN-3-ONE)	9	III
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

**SAFETY DATA SHEET**

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UN	3082	Environmentally hazardous substance, liquid, n.o.s. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE MIXTURE WITH 2-METHYL-4-ISOTHIAZOLIN-3-ONE)	9	III
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MX_DG

UN	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE MIXTURE WITH 2-METHYL-4-ISOTHIAZOLIN-3-ONE)	9	III
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***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	yes
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
CUPRIC SULFATE	7758-99-8	10	114942

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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SARA 311/312 Hazards

: Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitisation

SARA 302

: This material does not contain any components with a section 302 EHS TPQ.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know

WATER

7732-18-5

DIMETHYLOL-5,5-DIMETHYLHYDANTOIN 6440-58-0

New Jersey Right To Know

WATER

7732-18-5

DIMETHYLOL-5,5-DIMETHYLHYDANTOIN 6440-58-0

California Prop. 65

WARNING: This product can expose you to chemicals including methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory
TSCA : All substances listed as active on the TSCA inventory
AIIC : On the inventory, or in compliance with the inventory
DSL : All components of this product are on the Canadian DSL
ENCS : On the inventory, or in compliance with the inventory
ISHL : Not in compliance with the inventory
KECI : On the inventory, or in compliance with the inventory
PICCS : On the inventory, or in compliance with the inventory

SAFETY DATA SHEET

Revision Date: 06/29/2022

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EUXYL K 510 preservative
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in various countries
967339

IECSC : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

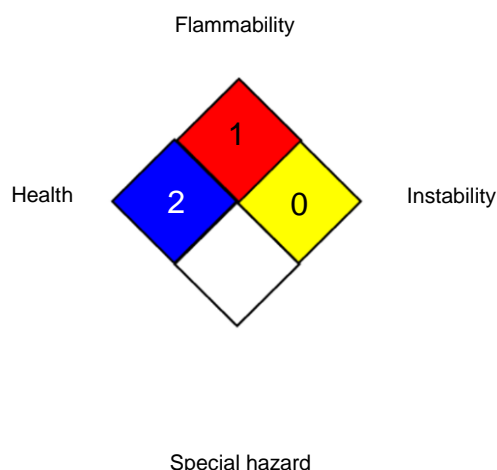
Other regulations

US. Drug Enforcement Administration (DEA) Listed Precursor and Essential Chemicals (21 CFR 1310) Not applicable

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of H-Statements

H301 Toxic if swallowed.
H302 Harmful if swallowed.

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H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.

Full text of other abbreviations

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

 This sds has been prepared by Ashland. (<http://www.ashland.com>)

Sources of key data used to compile the Safety Data Sheet	:	Ashland internal data including own and sponsored test reports European Union Law with content from the Official Journal of
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the European Union.
European Chemicals Agency; the EU authority implementing
the EU's chemicals legislation for companies.
The German Water Hazard Classes.
ReachCentrum; a series of support services to help comply
with REACH regulations.
The European Commission; proposing legislation,
administering and implementing EU policies, and enforcing
EU law.
The UNECE administers regional agreements implementing
harmonised classification for labelling (GHS) and transport.
Cefic, the European Chemical Industry Council.
ESIS European Chemical Substances Information System

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